

Safaty Data Shoot

Safety Data Sheet

AQUA-YIELD acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: March 23, 2018 Revision: February 16, 2018

1 Identification

· Product identifier

· Trade name: NanoCaSi · Product code: 002

- · Recommended use and restriction on use
- · Recommended use: Agricultural chemicals
- · Restrictions on use: No relevant information available.
- Details of the supplier of the Safety Data Sheet
- · Manufacturer/Supplier:

Aqua-Yield

12754 South 125 East

Draper, Utah 84020

+1(801)449-9220

info@aquayield.com

· Emergency telephone number:

ChemTel Inc.

- +1(800)255-3924 (North America)
- +1(813)248-0585 (International)

2 Hazard(s) identification

· Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

- Label elements
- GHS label elements This product does not have a classification according to the GHS regulation.
- Hazard pictograms: Not regulated.
- · Signal word: Not regulated.
- · Hazard statements: Not regulated.
- · Precautionary statements: Not regulated.
- Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Components:

7631-86-9 silicon dioxide

<2%

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4 First-aid measures

- Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation is experienced, consult a doctor.

· After eye contact:

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Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· Most important symptoms and effects, both acute and delayed:

Gastric or intestinal disorders when ingested.

Slight irritant effect on eyes.

Slight irritant effect on skin and mucous membranes.

· Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:

The product is not flammable.

Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents: None.
- Special hazards arising from the substance or mixture No relevant information available.
- · Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

For large spills, wear protective clothing.

· Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Methods and material for containment and cleaning up

Wipe up small spills with paper towel and discard.

For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard.

Dispose of the collected material according to regulations.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- Handling
- Precautions for safe handling:

Keep out of reach of children.

Open and handle receptacle with care.

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- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles:

Store in cool, dry conditions in well sealed receptacles.

Store only in the original receptacle.

- Information about storage in one common storage facility: No relevant information available.
- · Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

7631-86-9 silicon dioxide

NIOSH REL (USA) Long-term value: 6 mg/m³
OSHA PEL (USA) Long-term value: 80 mg/m³

- Exposure controls
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

- Engineering controls: No relevant information available.
- · Breathing equipment: Not required under normal conditions of use.
- · Protection of hands:

Gloves not required under normal conditions of use.

Gloves are advised for repeated or prolonged contact.

Wear protective gloves to handle contents of damaged or leaking units.

· Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · **Body protection:** Not required under normal conditions of use.
- Limitation and supervision of exposure into the environment No special requirements.
- · Risk management measures No special requirements.

9 Physical and chemical properties

Information on basic physical and chemical properties

· Appearance:

Form: Liquid
Color: Clear
Odor: Mild

· Odor threshold: Not determined.

· **pH-value:** Not determined.

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· Melting point/Melting range: · Boiling point/Boiling range:	Not determined. Not determined.	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
· Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
 Explosion limits Lower: Upper: Oxidizing properties: 	Not determined. Not determined. Not determined.	
· Vapor pressure:	Not determined.	
Density: Relative density: Vapor density: Evaporation rate:	1.33 Not determined. Not determined.	
· Solubility in / Miscibility with Water:	Fully miscible.	
· Partition coefficient (n-octanol/water)	: Not determined.	
· Viscosity Dynamic: Kinematic: · Other information	Not determined. Not determined. No relevant information available.	

10 Stability and reactivity

- · Reactivity: No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Excessive heat.
- · Incompatible materials Strong acids
- · Hazardous decomposition products Carbon monoxide and carbon dioxide

11 Toxicological information

- Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.
- LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:

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- On the skin: Based on available data, the classification criteria are not met.
- · On the eye: Based on available data, the classification criteria are not met.
- · **Sensitization**: Based on available data, the classification criteria are not met.
- · IARC (International Agency for Research on Cancer):

Present in trace quantities.

7440-02-0 nickel

2B

NTP (National Toxicology Program):

Present in trace quantities.

7440-02-0 nickel

R

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- · Reproductive toxicity: Based on available data, the classification criteria are not met.
- · STOT-single exposure: Based on available data, the classification criteria are not met.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

- · Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · **Mobility in soil:** No relevant information available.
- Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Smaller quantities can be disposed of with household waste.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and

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disposal for hazardous and nonhazardous wastes.

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- · Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information		
· UN-Number		
· DOT, ADR, IMDG, IATA	Not regulated.	
UN proper shipping name		
· DOT, ADR, IMDG, IATA	Not regulated.	
· Transport hazard class(es)		
· DOT, ADR, IMDG, IATA		
· Class	Not regulated.	
· Packing group		
DOT, ADR, IMDG, IATA	Not regulated.	
· Environmental hazards		
· Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of		
MARPOL73/78 and the IBC Code	Not applicable.	

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- · Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

- · Proposition 65 (California)
- Chemicals known to cause cancer:

Present in trace quantities.

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7440-02-0 nickel

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

Present in trace quantities.

7440-02-0 nickel

2B

NIOSH-Ca (National Institute for Occupational Safety and Health):

Present in trace quantities.

7440-02-0 nickel

Canadian Domestic Substances List (DSL):

All ingredients are listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision March 23, 2018 / -

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistant. Bio-accumulable. Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

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Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com